

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A process of diminishing coking in a petrochemical process conducted in contact with a surface subjected to coking, comprising providing said surface, at least in part with an austenitic steel comprising:

- iron;
- at most 0.15 wt % of C;
- 2 wt % to 10 wt % of Mn;
- at most 2 wt % of Ni;
- at most 4 wt % of Cu;
- 0.1 wt % to 0.4 wt % of N;
- 10 wt % to 20 wt % of Cr;
- at most 1 wt % of Si;
- at most 3 wt % of Mo; and
- at most 0.7 wt % of Ti.

2. (Currently Amended): A process according to claim 1, wherein said steel comprises:

- at most 0.1 wt % of C;
- 5 wt % to 10 wt % of Mn; and
- 15 wt % to 18 wt % of Cr.

3. (Currently Amended): A process according to claim 1, wherein said steel comprises:

- about 0.05 wt % of C;
- about 7.5 wt % of Mn;
- about 1.5 wt % of Ni;
- about 2.5 wt % of Cu;
- about 0.15 wt % of N;
- about 18 wt % of Cr; and

- about 0.5 wt % of Si.

4. (Currently Amended): A process according to claim 1, wherein said steel comprises:

- about 0.04 wt % of C;
- about 10 wt % of Mn;
- about 1.5 wt % of Ni;
- about 4 wt % of Cu;
- about 0.1 wt % of N;
- about 17 wt % of Cr;
- about 0.5 wt % of Si; and
- about 0.7 wt % of Ti.

5. (Currently Amended): A process according to claim 1, wherein said steel comprises:

- about 0.05 wt % of C;
- about 8.5 wt % of Mn;
- about 1.5 wt % of Ni;
- about 3 wt % of Cu;
- about 0.2 wt % of N;
- about 17 wt % of Cr;
- about 0.5 wt % of Si; and
- about 2.1 wt % of Mo.

6. (Currently Amended): A process according to claim 1, wherein said steel comprises:

- at most 0.01 wt % of S;
- at most 0.05 wt % of P; and
- at most 0.005 wt % of B.

7. (Currently Amended): A process according to claim 6, wherein said steel comprises 0.0005 wt % to 0.005 wt % of B.

8. (Currently Amended): A process according to claim 1, wherein said steel comprises:

- at most 0.030 wt % of S; and
- at most 0.045 wt % of P.

9. (Currently Amended): A process according to claim 1, wherein said steel further comprises:

- at most 1.1 wt % of Nb;
- at most 0.40 wt % of V;
- at most 0.05 wt % of Al; and
- at most 0.002 wt % of Ca.

10. (Cancelled):

11. (Cancelled):

12. (Cancelled):

13. (Cancelled):

14. (Previously Presented): A process according to claim 1, wherein said petrochemical process is carried out at temperatures of 350°C to 1100°C.

15. (Previously Presented): A process according to claim 14, wherein said petrochemical process is a catalytic reforming process that produces a reformat at temperatures of 450°C to 650°C.

16. (Previously Presented): A process according to claim 14, wherein said petrochemical process is isobutane dehydrogenation to produce isobutene at temperatures of 550°C to 700°C.

17. (Cancelled):

18. (Cancelled):

19. (Cancelled):

20. (Cancelled):

21. (New): A process according to claim 1, wherein said steel comprises at most 0.1 wt % of C.

22. (New): A process according to claim 1, wherein said steel comprises 5 wt % to 10 wt % of Mn.

23. (New): A process according to claim 1, wherein said steel comprises 15 wt % to 18 wt % of Cr.

24. (New): A process according to claim 6, wherein said steel further comprises:

- at most 1.1 wt % of Nb;
- at most 0.40 wt % of V;
- at most 0.05 wt % of Al; and
- at most 0.002 wt % of Ca.

25. (New): A process according to claim 8, wherein said steel further comprises:

- at most 1.1 wt % of Nb;
- at most 0.40 wt % of V;
- at most 0.05 wt % of Al; and

- at most 0.002 wt % of Ca.

26. (New): A process according to claim 1, wherein said petrochemical process is catalytic cracking.

27. (New): A process according to claim 1, wherein said petrochemical process is thermal cracking.

28. (New): A process according to claim 1, wherein said petrochemical process is catalytic reforming.

29. (New): A process according to claim 1, wherein said petrochemical process is saturated hydrocarbon dehydrogenation.

30. (New): A process of diminishing coking in a petrochemical process conducted in contact with a surface subjected to coking, comprising coating said surface with an austenitic steel comprising:

- iron;
- at most 0.15 wt % of C;
- 2 wt % to 10 wt % of Mn;
- at most 2 wt % of Ni;
- at most 4 wt % of Cu;
- 0.1 wt % to 0.4 wt % of N;
- 10 wt % to 20 wt % of Cr;
- at most 1 wt % of Si;
- at most 3 wt % of Mo; and
- at most 0.7 wt % of Ti.